

Last updated 28 March 2025

PIYUMA

Piyuma Pate, 1944b:356. Type species *Piyuma koxinga* Pate, 1944 [= *Crabro prosopoides* R. Turner, 1908], by original designation.

Revision Leclercq, 1995b; correction to key: Leclercq, 2007a:40.

1. *accepta* Leclercq

Piyuma accepta Leclercq, 1963:58, ♀. Holotype: ♀, Singapore (USNM). – R. Bohart and Menke, 1976:410 (in checklist of world Sphecidae); Leclercq, 1995b:412 (in revision of *Piyuma*), 2007a:40 (Laos: Champasak: Xe-Pian National Park).

2. *australiae* Leclercq

Piyuma australiae Leclercq, 1995b:412, ♀. Holotype: ♀, Australia: Queensland: 3 km east-northeast of Mount Tozer (ANIC).

3. *bukitana* Leclercq

Piyuma bukitana Leclercq, 1995b:413, ♀. Holotype: ♀, Brunei: Bukit Pagon (BMNH). – Dollfuss, 2004b:781 (Malaysia: Borneo: Sabah: 15 km west of Sandakan); Leclercq, 2007a:40 (Dollfuss, 2004b record reported).

4. *butuana* Leclercq

Piyuma butuana Leclercq, 1963:59, ♀, ♂. Holotype: ♀, Philippines: Island of Sibuyan: no specific locality (USNM). – Baltazar, 1966:353 (in catalog of Hymenoptera of Philippines); R. Bohart and Menke, 1976:410 (in checklist of world Sphecidae); Tsuneki, 1984b:20 (Philippines), 1984f:10 (Philippines), 34 (in key to Crabronini of Philippines); Leclercq, 1995b:413 (in revision of *Piyuma*).

ssp. *papuensis* Tsuneki

Piyuma butuana papuensis Tsuneki, 1983h:13, ♀. Holotype: ♀, Indonesia: Western Papua (= Indonesian New Guinea): Solong (RMNH). – Leclercq, 1995b:413 (in revision of *Piyuma*).

5. *chapraensis* Saini and Dey

Piyuma chapraensis Saini and Dey, 2021a:00, ♂. Holotype: ♂, India: Bihar: Chapra (National Pusa Collection, Indian Agricultural Research Institute, New Delhi, India). – Saini and Dey, 2021a:00 (in key to Indian *Piyuma*).

6. *dentipleuris* (Cameron)

Crabro dentipleuris Cameron, 1908d:243, ♀, actually ♂ (Leclercq 1995b:413). Holotype or syntypes: ♀, Malaysia: Sarawak: Kuching (BMNH). – **As *Piyuma dentipleuris***: Leclercq, 1951a:51 (new combination), 1954c:210 (in catalog of world Crabronini); Tsuneki, 1974b:645 (as new synonym of *Piyuma prosopoides*); Leclercq, 1995b:413 (as valid species, in revision of *Piyuma*).

7. *familiaris* (F. Smith)

Crabro familiaris F. Smith, 1858a:106, ♂. Holotype or syntypes: ♂, Malaysia: Sarawak: no specific locality (OXUM). – F. Smith, 1863b:135 (known from Borneo), 1871a:369 (in catalog of Oriental Aculeata); Cameron, 1890b:270 (listed); Dalla Torre, 1897:599 (in catalog of world Sphecidae). – **As *Piyuma familiaris***: Leclercq in R. Bohart and Menke, 1976:410 (new combination, in checklist of world Sphecidae); Leclercq, 1995b:414 (in revision of *Piyuma*).

8. *kotana* Leclercq

Piyuma kotana Leclercq, 1995b:414, ♀. Holotype: ♀, Malaysia: Johore: Kota Tinggi–Kulai road (BMNH).

9. *labina* Leclercq

Piyuma labina Leclercq, 1995b:414, ♂. Holotype: ♂, Brunei: Labi (BMNH). – Saini and Dey, 2021a:00 (in key to Indian *Piyuma*).

10. *materna* Leclercq

Piyuma materna Leclercq, 1995b:414, ♀. Holotype: ♀, Malaysia: Johore: Sedenak (BMNH). – Dollfuss, 2004b:781 (Laos: Khammouan: Ban Khoun Ngeun); Leclercq, 2007a:40 (Dollfuss, 2004b record reported).

11. *mindanaonis* Tsuneki

Piyuma mindanaonis Tsuneki, 1984f:11, ♂. Holotype: ♂, Philippines: Island of Mindanao: Bukidnon: near Malaybalay (originally K. Tsuneki coll., now USNM). – Tsuneki, 1984f:34 (in key to Crabronini of Philippines); Nuhn and Menke, 1994:27 (holotype not transferred to USNM, possibly returned to T. Murota, the collector); Menke, 1995:14 (type still in K. Tsuneki collection); Leclercq, 1995b:414 (in revision of *Piyuma*, description of ♀); Tano, 1995:46 (holotype in K. Tsuneki collection), 2020:26 (holotype in USNM).

12. *misera* Leclercq

Piyuma misera Leclercq, 1995b:415, ♂. Holotype: ♂, Sri Lanka: Ratnapura District: Sinharaja Jungle 3 mi south of Weddagala (USNM). – Saini and Dey, 2021a:00 (in key to Indian *Piyuma*).

13. *prosopoides* (R. Turner)

Crabro prosopoides R. Turner, 1908:528, ♀, ♂. Syntypes: Australia: Queensland: Mackay and Townsville (BMNH). – R. Turner, 1912f:63 (in list of Australian Crabroninae, placed in subgenus *Crossocerus*). – **As *Piyuma prosopoides***: Pate, 1944b:357 (new combination); Leclercq, 1951a:51 (in list of *Piyuma*), 1954c:210 (in catalog of world Crabronini; additional Australian localities), 1956a:2 (Australia, Papua New Guinea, variation); Tsuneki, 1963c:39 (Thailand; synonymy); Iwata, 1964b:376 (nesting habits in Thailand); Tsuneki, 1966d:1 (listed from Taiwan); R. Bohart and Menke, 1976:410 (in checklist of world Sphecidae); Cardale, 1985:273 (in catalog of Australian Sphecidae); Krombein, 1991:39 (Sri Lanka; collecting sites); Leclercq, 1995b:415 (in revision of *Piyuma*), 416 (nominotypical subspecies is Australian); Porter, Stange, and Wang, 1999:12 (in checklist of Sphecidae of Taiwan); Leclercq, 2007a:40 (previous identification from Australia and Papua New Guinea questionable); Mawadda and Girish Kumar, 2023a:109 (in checklist of Crabroninae of Northern India).

ssp. iwatai (Yasumatsu)

Crabro iwatai Yasumatsu, 1942a:88, ♀. Holotype: ♀, Taiwan: Kuaru (Kyushu Univ., Fukuoka). – Iwata, 1941a:8 (nomen nudum, nest and prey); Leclercq, 1963:59 (as synonym of *Piyuma makilingi*). – **As *Piyuma iwatai***: Leclercq, 1951a:51 (new combination), 1954c:210 (in catalog of world Crabronini), 303 (nest and prey records). – **As *Piyuma prosopoides iwatai***: Tsuneki, 1968g:14 (new status, Taiwan; systematics; other ssp. discussed), 31 (in key to Crabronini of Taiwan and Ryukyus), 1971a:24 (Taiwan); Leclercq, 1973c:301 (Taiwan); Tsuneki, 1974b:645 (Thailand; valid subspecies of *Piyuma prosopoides*); R. Bohart and Menke, 1976:410 (as synonym of *Piyuma prosopoides*); Tsuneki, 1977j:285 (Taiwan: Kankau, Taihorinsho); Leclercq, 1995b:416 (endemic of Taiwan); Hua, 2006:282 (in list of Chinese insects, geographic distribution).

Piyuma koxinga Pate, 1944:358, ♂, ♀. Holotype: ♂, Taiwan: Taihorinsho: Tainan-Shu (USNM). Synonymized with *Piyuma prosopoides iwatai* by Tsuneki, 1968g:14. – Leclercq, 1951a:51 (Sumatra), 1954c:210 (in catalog of world Crabronini), 1956a:1 (India, Taiwan, possible synonyms), 1957d:350 (Malaysia: Pahang: Kuala Jahang).

ssp. makilingi (F. Williams)

Crabro makilingi F. Williams, 1928b:100, ♀. Holotype: ♀, Philippines: Luzon: Los Baños (Bishop Mus.). – Pate, 1944:357 (possibly belongs in *Piyuma*). – **As *Piyuma makilingi***: Leclercq, 1951a:51 (new combination), 1954c:210 (in catalog of world Crabronini), 303 (nest and prey records), 1963:59 (Philippines, India: Coimbatore); Baltazar, 1966:353 (in catalog of Hymenoptera of Philippines); Tsuneki, 1974b:645 (*Piyuma makilingi* is a synonym of *P. prosopoides*); R. Bohart and Menke, 1976:410 (as synonym of *Piyuma prosopoides*); Radović, 1985:65 (sting apparatus analyzed). – **As *Piyuma prosopoides makilingi***: Tsuneki, 1976b:108 (new status, Philippines; comparison with *Piyuma prosopoides iwatai*), 1984b:19 (Philippines), 1984f:10 (Philippines), 34 (in key to Crabronini of Philippines); Tsuneki et al., 1992b:40 (Philippines); Leclercq, 1995b:416 (India, Indonesia, Malaysia, Papua New Guinea: New Britain, Philippines, Singapore, Sri Lanka, Thailand); Dollfuss, 2004b:781 (India: Assam: Namemri National Park 60 km north of Tezpur, Laos: Khammouan: Ban Khoun Ngeun); Leclercq, 2007a:40 (Papua New Guinea: Baiteta near Madang at 5°01'00"S 145°45'0"E).

14. *selangori* Leclercq

Piyuma selangori Leclercq, 1957d:351, ♀. Holotype: ♀, Malaysia: Selangor: Bukit Kutu (BMNH). – R. Bohart and Menke, 1976:410 (in checklist of world Sphecidae); Leclercq, 1995b:416 (in revision of *Piyuma*).

15. *seriana* Leclercq

Piyuma seriana Leclercq, 1995b:417, ♀, ♂. Holotype : ♂, Brunei: Seria (BMNH).

16. *sibilla* Leclercq

Piyuma sibilla Leclercq, 1995b:417, ♀. Holotype: ♀, Malaysia: Sarawak no specific locality (USNM).

17. *singapurae* Leclercq

Piyuma singapurae Leclercq, 1995b:418, ♂. Holotype: ♂, Singapore (USNM).

18. *solomonica* Tsuneki

Piyuma solomonica Tsuneki, 1983h:14, ♂. Holotype: ♂, Solomon Islands: Island of Guadalcanal: Tenaru River (CAS). – Pulawski, 1994:27 (CAS holotype no. 15125); Leclercq, 1995b:419 (bibliographic reference).

sp.

Sk. Yamane, 1983:87 (Indonesia: islands of Krakatau); Leclercq, 2007a:40 (sp. near *Piyuma familiaris*; Papua New Guinea).